

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



PCT

(43) International Publication Date
29 December 2004 (29.12.2004)

(10) International Publication Number
WO 2004/112478 A1

(51) International Patent Classification⁷: A01N 25/30, 43/40, 57/20, C07C 217/02 // (A01N 57/20, 25:30) (A01N 43/40, 25:30)

(21) International Application Number:
PCT/GB2004/002525

(22) International Filing Date: 11 June 2004 (11.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0313829.4 16 June 2003 (16.06.2003) GB

(71) Applicant (for all designated States except US): IMPERIAL CHEMICAL INDUSTRIES PLC [GB/GB]; 20 Manchester Square, London W1U 3AN (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): BEVINAKATTI, Hanamantha, Shankarsa [GB/GB]; 5 The Pines, Yarm, Cleveland TS15 9EW (GB).

(74) Agents: ROBERTS, Jonathan, Winstanley et al.; Uniqema Limited, Intellectual Property Department, Wilton Centre, Wilton, Redcar, Cleveland TS10 4RF (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/112478 A1

(54) Title: SURFACTANT COMPOUNDS AND AGROCHEMICAL COMPOSITIONS

(57) Abstract: Compounds of the formula: R¹ R²N-CH₂-CHO[(AO)_{ml} R⁴]-CH₂-OR³ where R¹ is alkoxylated polyhydroxy hydrocarbyl; R² is as defined for R¹, or hydrocarbyl, particularly alkyl or alkoxyalkyl, alkoxylated hydroxyalkyl, or a group: -CH₂-CHO[(AO)_{ml} R⁴]-CH₂-OR³; R³ is hydrocarbyl; AO is alkyleneoxy; ml is from 0 to 50; such that the average total number of alkyleneoxy groups in the molecule is from 3 to 50; and R⁴ is hydrogen, or alkyl, are useful as agrochemical adjuvants. The agrochemical can be a plant growth regulator, herbicide, and/or pesticide, for example insecticide, fungicide, acaricide, nematocide, miticide, rodenticide, bactericide, molluscicide and/or bird repellent. Particularly useful formulations include water soluble herbicide(s), particularly such as glyphosate, glufosinate and paraquat.